

28-OCT-09  
12:00:14

GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

40.00' CURB-TO-CURB; 6 BEAMS; 98.50' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE										
43.250	3.625	3.625	21.625	6	54.499	3	1	*****	0										
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.625	7.200	7.200	7.200	7.200	7.200														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5															
21.625																			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	63.582
2	0.8333	45.416
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	63.582
2	1.4444	78.721
3	1.1667	63.582
4	0.2222	12.111
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	63.582
2	1.4444	78.721
3	1.3889	75.693
4	1.3889	75.693
5	0.6111	33.305
6	0.0000	0.000

LIVE LOAD CASE # 4 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.8333	45.416
6	1.1667	63.582

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LIVE LOAD CASE # 5 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.2222	12.111
4	1.1667	63.582
5	1.4444	78.721
6	1.1667	63.582

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6111	33.305
3	1.3889	75.693
4	1.3889	75.693
5	1.4444	78.721
6	1.1667	63.582

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LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4167	22.708
3	1.1667	63.582
4	0.4167	22.708
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8056	43.902
2	1.5833	86.290
3	1.1944	65.096
4	0.4167	22.708
5	0.0000	0.000
6	0.0000	0.000

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LIVE LOAD CASE # 9 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.8056	43.902
2	1.5833	86.290
3	1.2222	66.610
4	1.5833	86.290
5	0.8056	43.902
6	0.0000	0.000

LIVE LOAD CASE # 10                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.6111	33.305
3	1.3889	75.693
4	1.3889	75.693
5	0.6111	33.305
6	0.0000	0.000

LIVE LOAD CASE # 11                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	63.582
2	1.4444	78.721
3	1.3889	75.693
4	1.3889	75.693
5	0.6111	33.305
6	0.0000	0.000

LIVE LOAD CASE # 12                    2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	63.582
2	0.8333	45.416
3	0.0000	0.000
4	0.0000	0.000
5	0.8333	45.416
6	1.1667	63.582

LIVE LOAD CASE # 13                    3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.1667	63.582
2	1.4444	78.721
3	1.1667	63.582
4	0.2222	12.111
5	0.8333	45.416
6	1.1667	63.582

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12:00:14

GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
SUMMARY OF THE LIVE LOAD CASE PROGRAM  
REVISED: JUNE 26, 2008

PROB. NO. LL01

40.00' CURB-TO-CURB; 6 BEAMS; 98.50' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE				# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH *****	SKEW ANGLE								
43.250	3.625	3.625	21.625				6	54.499	3	1		0								
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	
3.625	7.200	7.200	7.200	7.200	7.200															
XCOL1		XCOL2	XCOL3	XCOL4	XCOL5															
21.625																				
		NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10								
LL CASE 1	1	1	63.582	45.416	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 2	2	2	63.582	78.721	63.582	12.111	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 3	3	3	63.582	78.721	75.693	75.693	33.305	0.000	0.000	0.000	0.000	0.000								
LL CASE 4	4	1	0.000	0.000	0.000	0.000	45.416	63.582	0.000	0.000	0.000	0.000								
LL CASE 5	5	2	0.000	0.000	12.111	63.582	78.721	63.582	0.000	0.000	0.000	0.000								
LL CASE 6	6	3	0.000	33.305	75.693	75.693	78.721	63.582	0.000	0.000	0.000	0.000								
LL CASE 7	7	1	0.000	22.708	63.582	22.708	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 8	8	2	43.902	86.290	65.096	22.708	0.000	0.000	0.000	0.000	0.000	0.000								
LL CASE 9	9	3	43.902	86.290	66.610	86.290	43.902	0.000	0.000	0.000	0.000	0.000								
LL CASE 10	10	2	0.000	33.305	75.693	75.693	33.305	0.000	0.000	0.000	0.000	0.000								
LL CASE 11	11	3	63.582	78.721	75.693	75.693	33.305	0.000	0.000	0.000	0.000	0.000								
LL CASE 12	12	2	63.582	45.416	0.000	0.000	45.416	63.582	0.000	0.000	0.000	0.000								
LL CASE 13	13	3	63.582	78.721	63.582	12.111	45.416	63.582	0.000	0.000	0.000	0.000								

FOR PIER PROGRAM INPUT

61LL 1	1	63582	45415	0	0	0	0	0	0	0
61LL 2	2	63582	78720	0	63582	12110	0	0	0	0
61LL 3	3	63582	78720	0	75693	75693	0	33304	0	0
61LL 4	1	0	0	0	0	0	0	45415	63582	0
61LL 5	2	0	0	0	12110	63582	0	78720	63582	0
61LL 6	3	0	33304	0	75693	75693	0	78720	63582	0
61LL 7	1	0	22707	0	63582	22707	0	0	0	0
61LL 8	2	43901	86290	0	65096	22707	0	0	0	0
61LL 9	3	43901	86290	0	66609	86290	0	43901	0	0
61LL10	2	0	33304	0	75693	75693	0	33304	0	0
61LL11	3	63582	78720	0	75693	75693	0	33304	0	0
61LL12	2	63582	45415	0	0	0	0	45415	63582	0
61LL13	3	63582	78720	0	63582	12110	0	45415	63582	0